

2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: BARREN RIVER AREA DEVELOPMENT DISTRICT

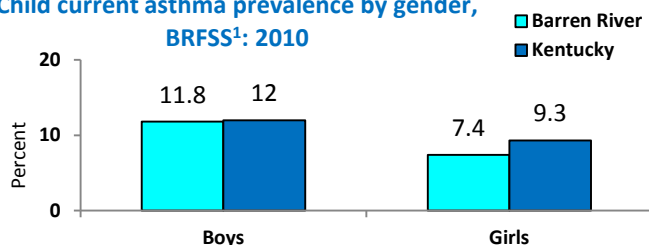
- The Barren River District of Kentucky is comprised of 10 counties: Logan, Simpson, Butler, Warren, Edmonson, Hart, Barren, Allen, Metcalfe, and Monroe.
- The 2011 Barren River District population was roughly 286,258. About 66,700 persons were younger than 18 (children), and about 219,600 were 18 or older (adults).



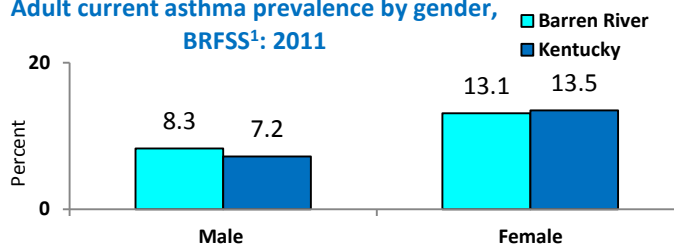
PREVALENCE

- In 2010, an estimated 6,200 children (9.6%) in the Barren River District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 23,000 adults (10.8%) in the Barren River District currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence by gender,
BRFSS¹: 2010



Adult current asthma prevalence by gender,
BRFSS¹: 2011

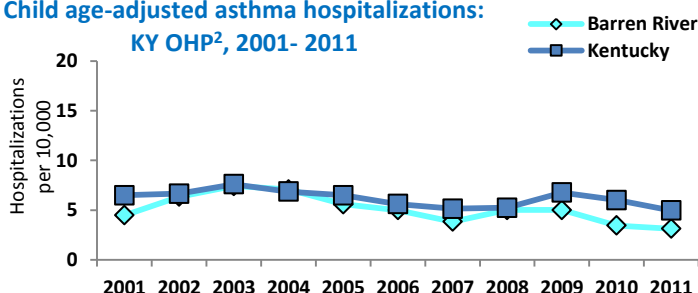


- In 2010, child current asthma prevalence rate was lower in the Barren River District compared to Kentucky. In 2011, adult current asthma prevalence rate was higher among females than males in this district. This pattern was similar for Kentucky. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology)

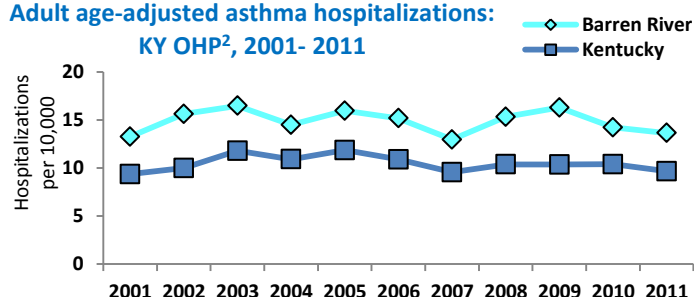
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 3.1/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was 13.7/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age-adjusted asthma hospitalizations:
KY OHP², 2001- 2011



Adult age-adjusted asthma hospitalizations:
KY OHP², 2001- 2011



- Overall, child asthma hospitalizations have been lower in Barren River District compared to Kentucky while adult hospitalization rates have been higher in this district compared to Kentucky. Between 2001 and 2011, the Barren River District averaged 10.0 total asthma hospitalizations/10,000 persons/year, while Kentucky averaged 8.3 total hospitalizations/10,000 persons/ year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 1.5/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 1.7/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 0.94 /100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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KENTUCKY RESPIRATORY DISEASES ASTHMA PROGRAM

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: BIG SANDY AREA DEVELOPMENT DISTRICT

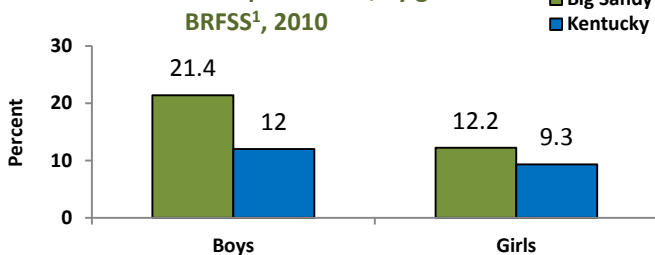
- The Big Sandy District of Kentucky is comprised of 5 counties: Johnson, Magoffin, Martin, Floyd, and Pike.
- The 2011 Big Sandy District population was roughly 157,500. About 35,000 persons were younger than 18 (children), and about 122,500 were 18 or older (adults).



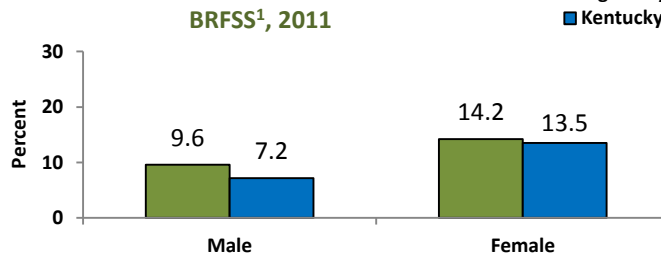
PREVALENCE

- In 2010, an estimated 5,600 children (16.8%) in the Big Sandy District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 14,500 adults (12.0%) in this district currently had asthma, compared to 10.4% for Kentucky and 9.4% for the United States.¹

Child current asthma prevalence, by gender:



Adult current asthma prevalence, by gender:

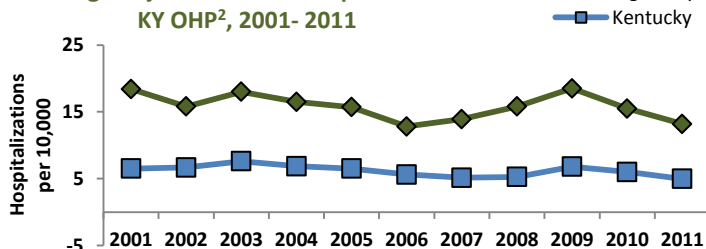


- In 2010, child current asthma prevalence rate was higher in the Big Sandy District compared to Kentucky. In 2011, adult current asthma prevalence rate was higher among females than males in this district. This pattern was similar for Kentucky. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology).

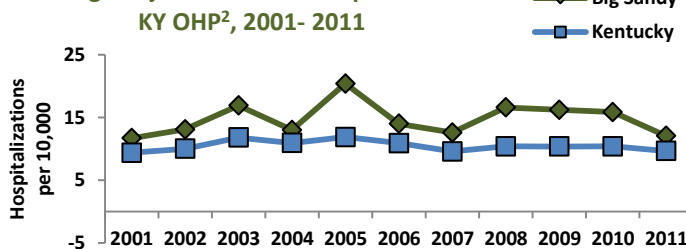
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children in Big Sandy was 13.2/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults in this district was 12.1/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age-adjusted asthma hospitalizations:



Adult age-adjusted asthma hospitalizations:



- Overall, both child and adult asthma hospitalizations have been higher in Big Sandy District as compared to Kentucky, and show a gradual decline since 2009. Between 2001 and 2011, the Big Sandy District averaged 15.3 asthma hospitalizations/10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department visits for children were 1.2/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 2.0/1,000 persons, compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 1.05 /100,000 persons/year in this district compared to 1.10/persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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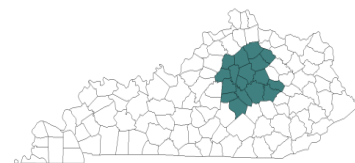
KENTUCKY RESPIRATORY DISEASES ASTHMA PROGRAM

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: BLUEGRASS AREA DEVELOPMENT DISTRICT

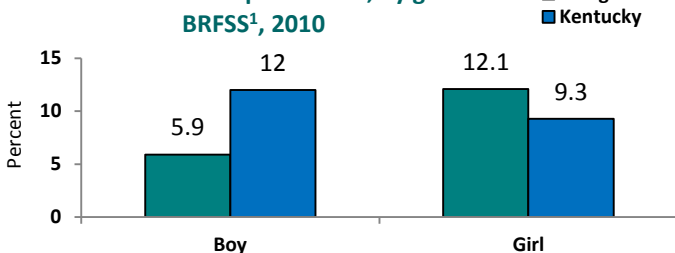
- The Bluegrass District of Kentucky is comprised of 17 counties: Anderson, Franklin, Woodford, Mercer, Boyle, Lincoln, Garrard, Jessamine, Fayette, Scott, Harrison, Bourbon, Nicholas, Clark, Madison, Powell, and Estill.
- The 2011 Bluegrass District population was roughly 779,000. About 175,000 persons were younger than 18 (children), and about 604,000 were 18 or older (adults).



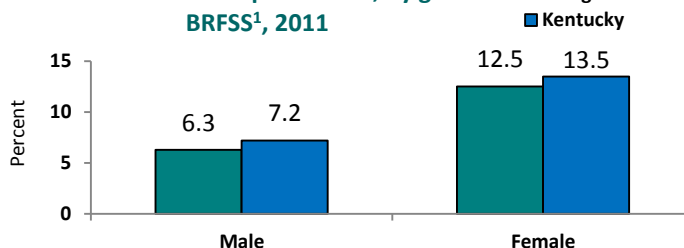
PREVALENCE

- In 2010, an estimated 15,000 (9.0%) children in the Bluegrass Region currently had asthma compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 51,000 (9.5%) adults in this district currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender:



Adult current asthma prevalence, by gender:

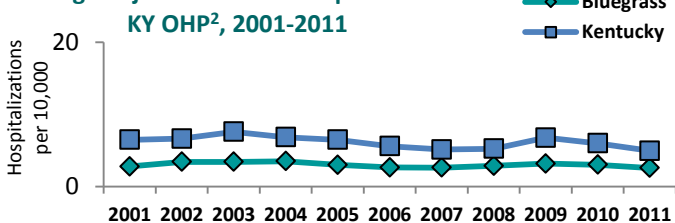


- In 2010, child current asthma prevalence rate was higher in girls than boys in the Bluegrass District. Overall, adult current asthma prevalence rate was similar in this district to Kentucky. (Note: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology).

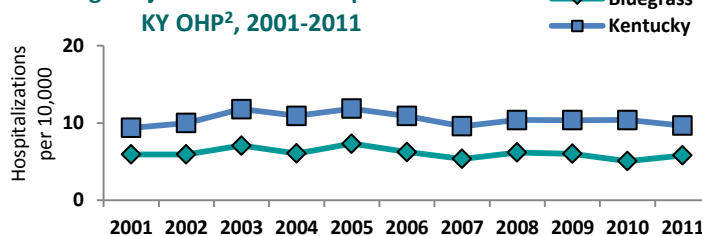
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children in this district was 2.6/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while, the age-adjusted hospitalization rate for adults was 5.8/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age adjusted asthma hospitalizations:



Adult age adjusted asthma hospitalizations:



- Child and adult asthma hospitalizations have been lower in the Bluegrass District compared to Kentucky. Between 2001 and 2011, the total child and adult asthma hospitalizations in this district averaged 4.6 asthma hospitalizations/ 10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/ year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department visits for children were 1.88/1,000 persons, compared to the state rate of 1.96/1,000 persons³ and for adults were 2.65/1,000 persons compared to the state rate of 2.51/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 0.92 /100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: BUFFALO TRACE AREA DEVELOPMENT DISTRICT

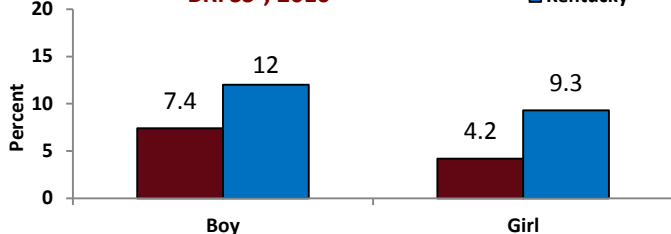
- The Buffalo Trace District of Kentucky is comprised of 5 counties: Bracken, Mason, Robertson, Fleming, and Lewis.
- The 2011 Buffalo Trace District population was roughly 56,800. About 13,600 persons were younger than 18 (children), and about 43,200 were 18 or older (adults).



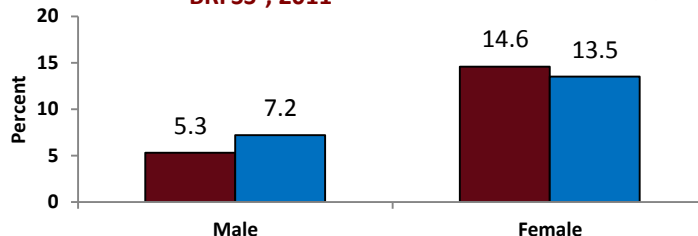
PREVALENCE

- In 2010, an estimated 750 children (5.9%) in the Buffalo Trace District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 4,330 adults (10.0%) in this district currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender: BRFSS¹, 2010



Adult current asthma prevalence, by gender: BRFSS¹, 2011

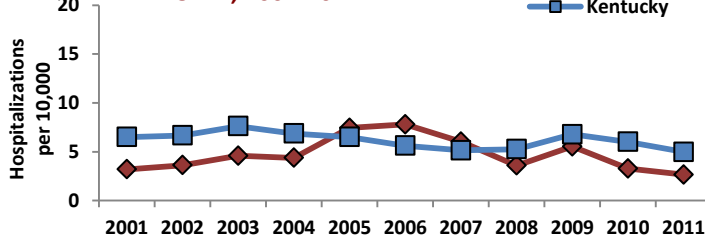


- In 2010, both boys and girls in the Buffalo Trace District had lower current asthma prevalence rate compared to Kentucky. Adult females in this district had higher current asthma prevalence rate than Kentucky. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology)

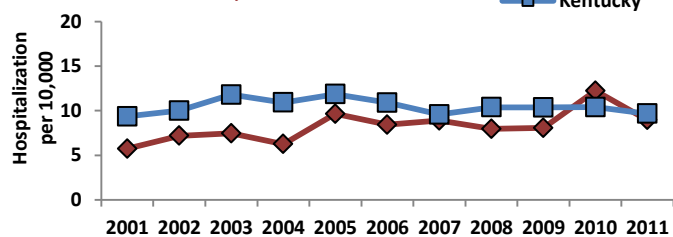
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 2.6/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was 8.9/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age adjusted asthma hospitalizations: KY OHP², 2001-2011



Adult age adjusted asthma hospitalizations: KY OHP², 2001-2011



- From 2009 to 2011, child asthma hospitalizations have been on a gradual decline. Between 2001 and 2011, the Buffalo Trace District averaged 6.5 asthma hospitalizations /10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 1.6/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 2.3/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 1.09 /100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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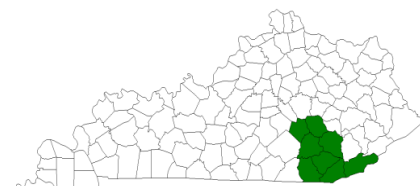
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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: CUMBERLAND VALLEY AREA DEVELOPMENT DISTRICT

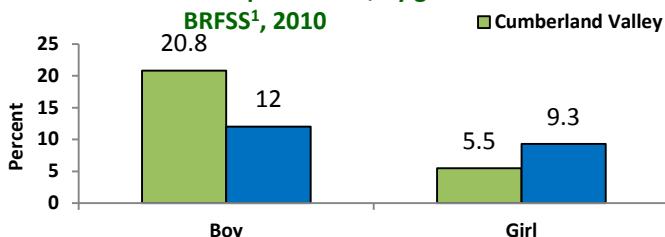
- The Cumberland Valley District of Kentucky is comprised of 8 counties: Jackson, Rockcastle, Laurel, Clay, Knox, Whitley, Bell, and Harlan.
- The 2011 Cumberland Valley District population was roughly 237,000. About 55,300 persons were younger than 18 (children), and about 182,000 were 18 or older (adults).



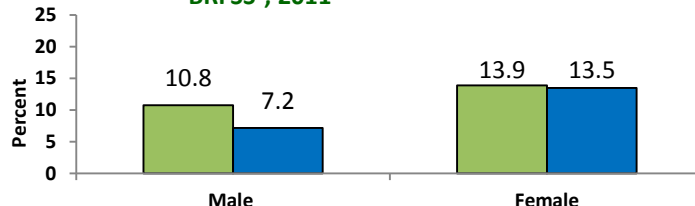
PREVALENCE

- In 2010, an estimated 7,500 children (13.6%) in the Cumberland Valley District currently had asthma compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 22,660 adults (12.4%) in this district currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender:



Adult current asthma prevalence, by gender:

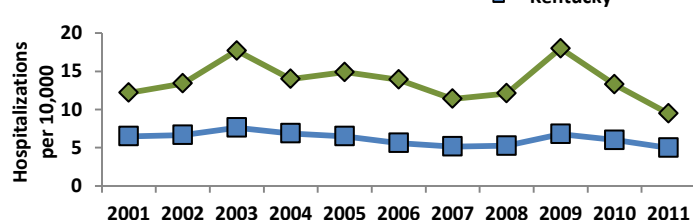


- In 2010, child current asthma prevalence rate was higher in boys than girls in Cumberland Valley. In 2011, adult current asthma prevalence rate was slightly higher in this district compared to Kentucky. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology)

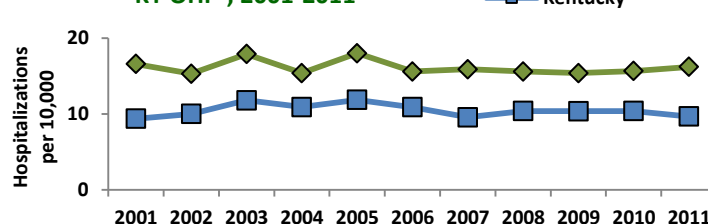
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 9.5/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while, the age-adjusted hospitalization rate for adults was 16.2/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age-adjusted asthma hospitalizations:



Adult age-adjusted asthma hospitalizations:



- Since 2009 to 2011, child asthma hospitalizations have been on a gradual decline. Between 2001 and 2011, the Cumberland Valley District averaged 15.0 asthma hospitalizations/10,000 persons/ year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 2.2/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 2.5/1,000 persons similar to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 0.93/100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: FIVCO AREA DEVELOPMENT DISTRICT

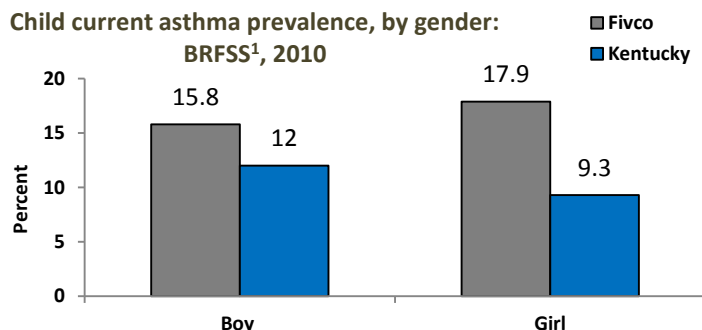
- The FIVCO District of Kentucky is comprised of 5 counties: Greenup, Boyd, Carter, Elliott, and Lawrence.
- The 2011 FIVCO District population was roughly 137,700. About 30,300 persons were younger than 18 (children), and about 107,300 were 18 or older (adults).



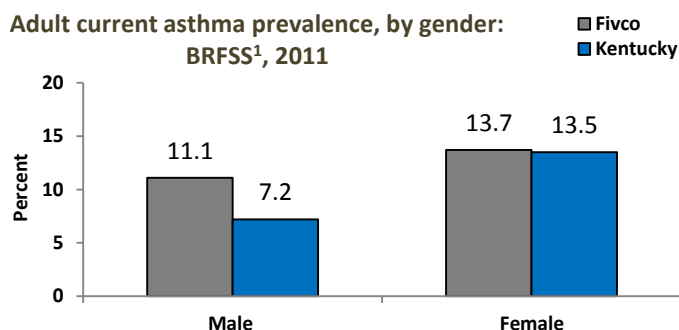
PREVALENCE

- In 2010, an estimated 4,900 children (16.9%) in the FIVCO District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 13,500 adults (12.4%) in the FIVCO District currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.²

Child current asthma prevalence, by gender:



Adult current asthma prevalence, by gender:

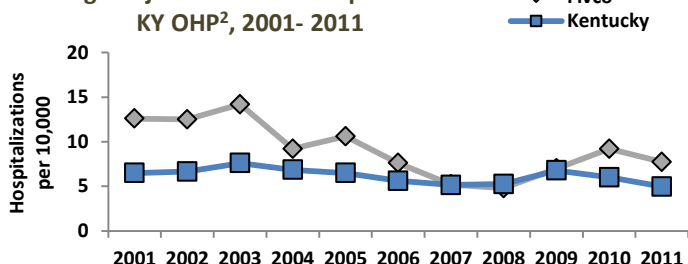


- In 2010, child current asthma prevalence rate was higher for both boys and girls in the FIVCO district compared to the state. In 2011, both males and females had higher current asthma prevalence rate in this district compared to the state. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology).

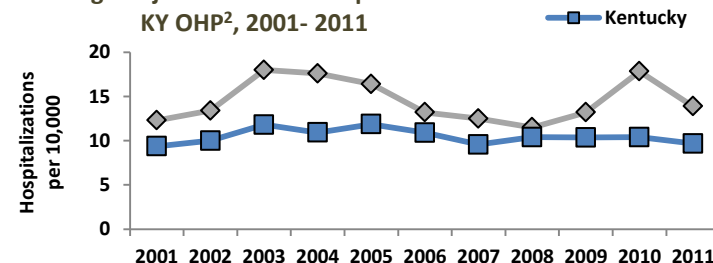
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 7.7/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was 13.9/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age-adjusted asthma hospitalizations:



Adult age-adjusted asthma hospitalizations:



- In 2011, both child and asthma hospitalization were higher in FIVCO District compared to Kentucky. Between 2001 and 2011, the FIVCO District averaged 11.8 asthma hospitalizations/10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 1.2/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 2.7/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 1.28/100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: GATEWAY AREA DEVELOPMENT DISTRICT

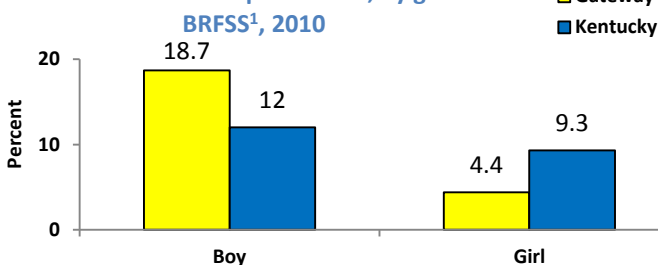
- The Gateway District of Kentucky is comprised of 5 counties: Rowan, Bath, Montgomery, Menifee, and Morgan.
- The 2011 Gateway District population was roughly 82,300. About 18,200 persons were younger than 18 (children), and about 64,000 were 18 or older (adults).



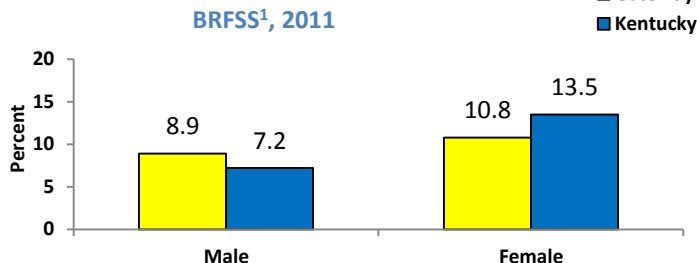
PREVALENCE

- In 2010, an estimated 2,100 children (11.8%) in the Gateway District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 6,150 adults (9.8%) in this district currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender:



Adult current asthma prevalence, by gender:

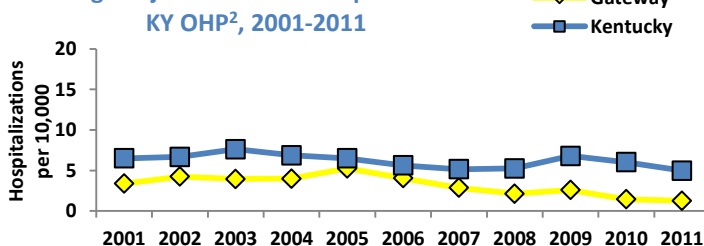


- In 2010, among children, boys in the Gateway district had a higher current asthma prevalence rate compared to Kentucky, while girls in this district had lower current asthma prevalence rate compared to Kentucky. In 2011, among adults, males had higher current asthma prevalence in this district compared to Kentucky. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology)

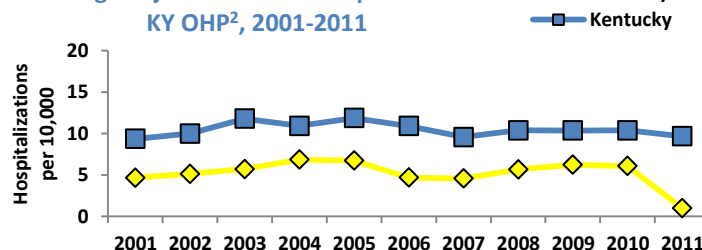
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 1.3/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was approximately 1.0/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age adjusted asthma hospitalizations:



Adult age adjusted asthma hospitalizations:



- In 2011, adult asthma hospitalizations declined from the previous year (2010). Between 2001 and 2011, the Gateway District averaged 4.2 asthma hospitalizations/10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 1.9/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 1.0/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 1.25/100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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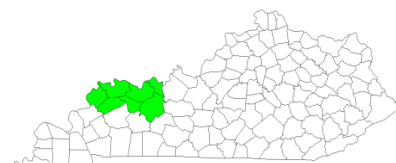
KENTUCKY RESPIRATORY DISEASES ASTHMA PROGRAM

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275 E. Main St. * Mail Stop HS2WE * Frankfort, KY 40621 * (502) 564-7996, ext. 4439

Website: www.chfs.ky.gov/Asthma

2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: GREEN RIVER AREA DEVELOPMENT DISTRICT

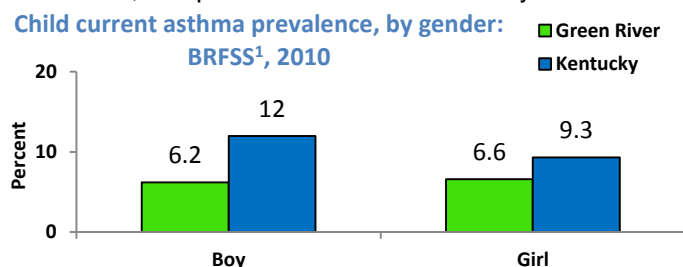
- The Green River District of Kentucky is comprised of 7 counties: Union, Henderson, Webster, McLean, Daviess, Ohio, and Hancock.
- The 2011 Green River District population was roughly 214,500. About 51,500 persons were younger than 18 (children), and about 163,000 were 18 or older (adults).



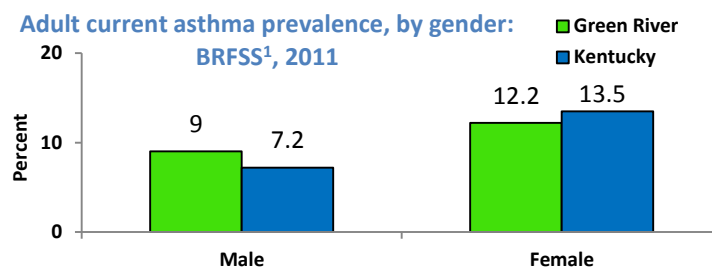
PREVALENCE

- In 2010, an estimated 3,200 children (6.4%) in the Green River District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 16,900 adults (10.6%) in this district currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender:



Adult current asthma prevalence, by gender:

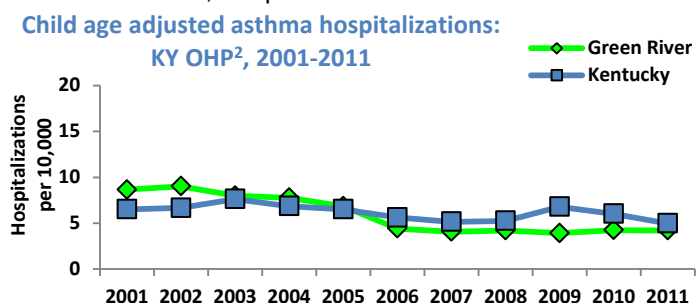


- In 2010, child current asthma prevalence rate was lower in both boys and girls in the Green River District than the state, while adult males had higher current asthma prevalence rate in this district than Kentucky. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology).

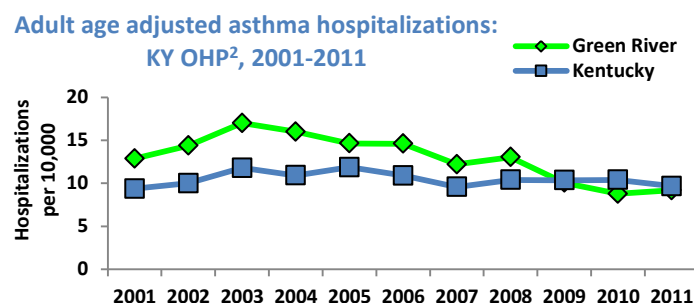
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 4.2/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was 9.2/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age adjusted asthma hospitalizations:



Adult age adjusted asthma hospitalizations:



- In 2011, child and adult asthma hospitalizations were slightly lower in Green River District compared to the state. Between 2001 and 2011, this district averaged 9.5 asthma hospitalizations/10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 1.6/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 3.2/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 1.09/100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: KIPDA AREA DEVELOPMENT DISTRICT

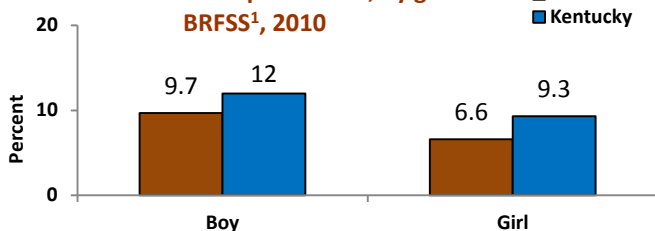
- The KIPDA District of Kentucky is comprised of 7 counties: Bullitt, Henry, Jefferson, Oldham, Shelby, Spencer, and Trimble.
- The 2011 KIPDA District population was roughly 967,200. About 227,900 persons were younger than 18 (children), and about 739,400 were 18 or older (adults).



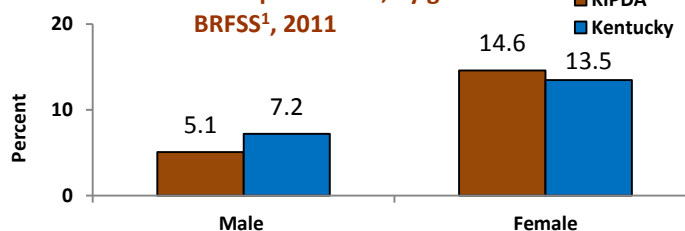
PREVALENCE

- In 2010, an estimated 18,400 children (8.2%) in the KIPDA District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 72,300 adults (10.0%) in this district currently had asthma compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender:



Adult current asthma prevalence, by gender:

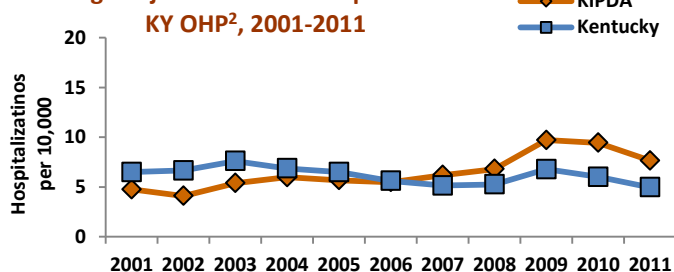


- In 2010, child current asthma prevalence rate was lower in both boys and girls in KIPDA district as compared to Kentucky. In 2011, adult current asthma prevalence rate was higher in females than males in this district. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology)

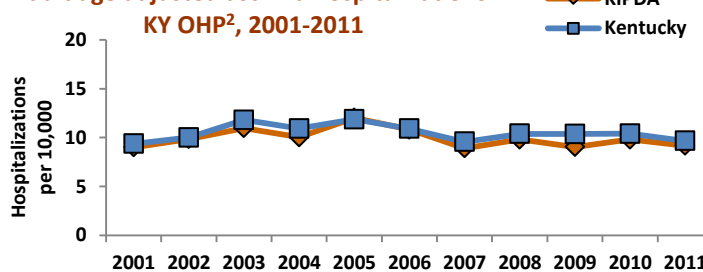
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 7.7/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was 9.2/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age adjusted asthma hospitalizations:



Adult age adjusted asthma hospitalizations:



- In 2011, child asthma hospitalizations were higher in KIPDA District than Kentucky, while adult asthma hospitalizations in this district and the state were similar. Between 2001 and 2011, the KIPDA District averaged 8.2 asthma hospitalizations/10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 3.2/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 3.0/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 1.32 /100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: KENTUCKY RIVER AREA DEVELOPMENT DISTRICT

- The Kentucky River District of Kentucky is comprised of 8 counties: Wolfe, Owsley, Lee, Breathitt, Leslie, Perry, Knott, and Letcher.
- The 2011 Kentucky River District population was roughly 114,500. About 25,100 persons were younger than 18 (children), and about 89,300 were 18 or older (adults).

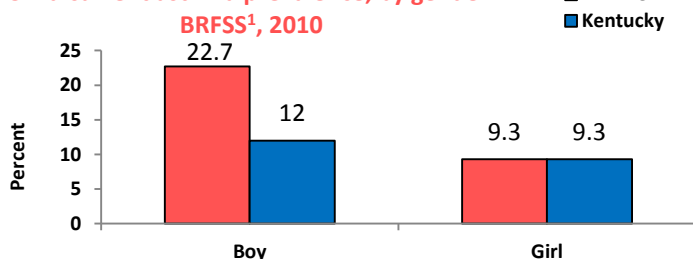


PREVALENCE

- In 2010, an estimated 4,000 children (16.1%) in the Kentucky River District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 12,900 adults (14.4%) in this district currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.¹

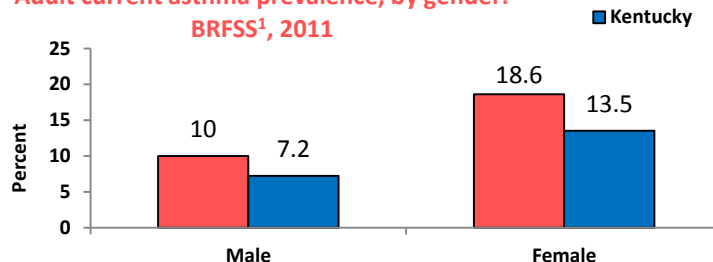
Child current asthma prevalence, by gender:

■ KY River
■ Kentucky



Adult current asthma prevalence, by gender:

■ KY River
■ Kentucky



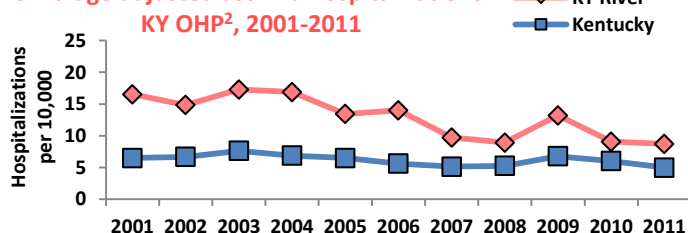
- In 2010, child current asthma prevalence rate was higher in boys than girls in the Kentucky River District. In 2011, adult current asthma prevalence rate was higher in both males and females in this district compared to the state. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology).

HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 8.7/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was 15.5/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

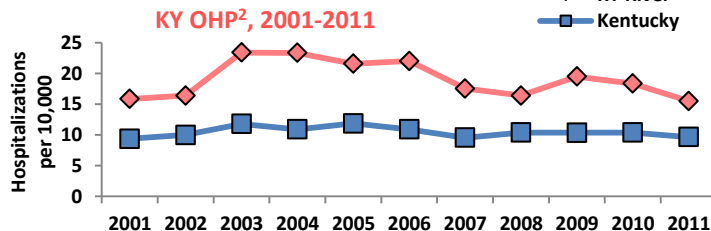
Child age adjusted asthma hospitalizations:

◆ KY River
■ Kentucky



Adult age adjusted asthma hospitalizations:

◆ KY River
■ Kentucky



- Child and adult asthma hospitalizations have been higher in Kentucky River District compared to the state, and since 2009 child asthma hospitalizations have gradually declined. Between 2001 and 2011, the Kentucky River District averaged 16.0 asthma hospitalizations/10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 2.3/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 2.3/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 1.56 /100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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KENTUCKY RESPIRATORY DISEASES ASTHMA PROGRAM

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: LAKE CUMBERLAND AREA DEVELOPMENT DISTRICT

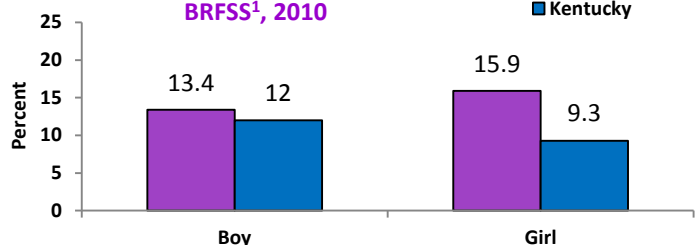
- The Lake Cumberland District of Kentucky is comprised of 10 counties: Taylor, Adair, Green, Casey, Russell, Pulaski, Clinton, Cumberland, Wayne, and McCreary.
- The 2011 Lake Cumberland District population was roughly 208,100. About 46,800 persons were younger than 18 (children), and about 161,000 were 18 or older (adults).



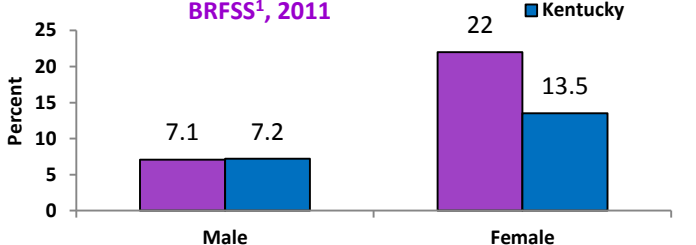
PREVALENCE

- In 2010, an estimated 6,600 children (14.7%) in the Lake Cumberland District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 23,900 adults (14.5%) in this district currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender: BRFSS¹, 2010



Adult current asthma prevalence, by gender: BRFSS¹, 2011

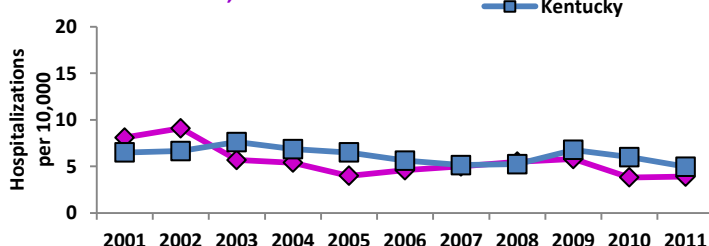


- In 2010, child current asthma prevalence rate was higher in both boys and girls in Lake Cumberland District compared to Kentucky. In 2011, adult current asthma prevalence rate was higher in females in this district compared to the state. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology).

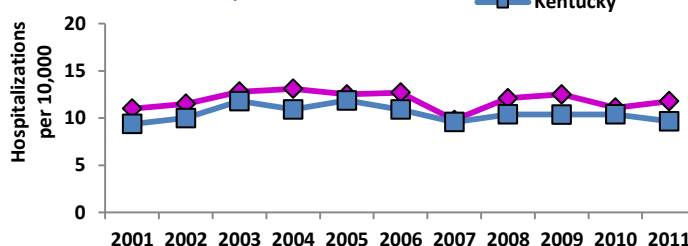
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 3.9/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was 11.8/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age-adjusted asthma hospitalizations: KY OHP², 2001- 2011



Adult age-adjusted asthma hospitalizations: KY OHP², 2001- 2011



- Since 2009, child asthma hospitalizations in the Lake Cumberland District have been on a gradual decline. Between 2001 and 2011, this district averaged 8.7 asthma hospitalizations/10,000 /persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/ year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 1.5/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 2.1/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 1.01 /100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: LINCOLN TRAIL AREA DEVELOPMENT DISTRICT

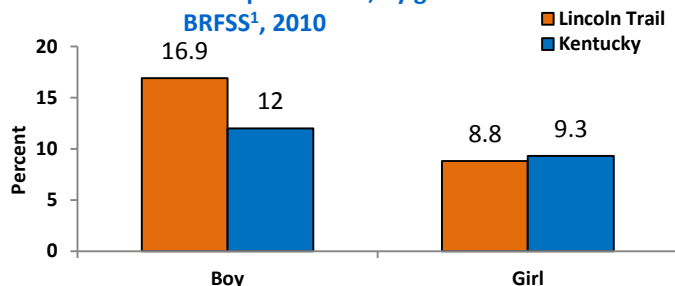
- The Lincoln Trail District of Kentucky is comprised of 8 counties: Breckinridge, Meade, Grayson, Hardin, Larue, Nelson, Washington, and Marion.
- The 2011 Lincoln Trail District population was roughly 273,300. About 68,660 persons were younger than 18 (children), and about 204,700 were 18 or older (adults).



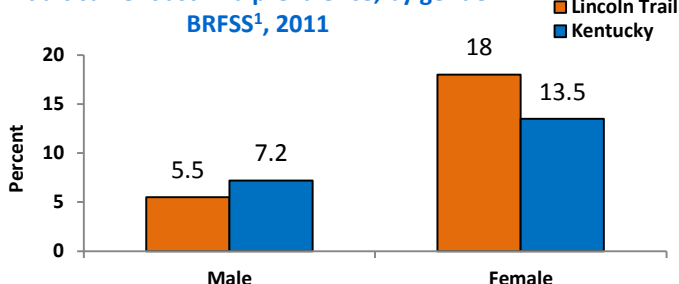
PREVALENCE

- In 2010, an estimated 8,200 children (12.9%) in the Lincoln Trail District currently had asthma compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 23,000 adults (11.9%) in this district currently had asthma compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender:



Adult current asthma prevalence, by gender:

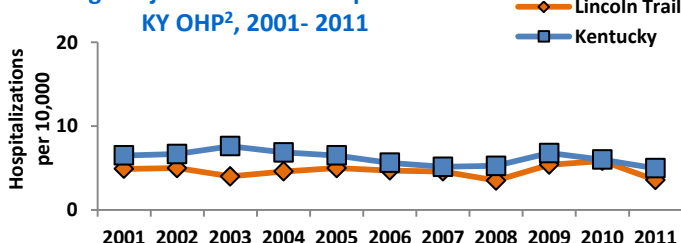


- In 2010, child current asthma prevalence rate was higher in boys and lower in girls in the Lincoln Trail District compared to Kentucky. The adult current asthma prevalence rate was lower in males in this district than it was in the state, and higher in females than it was in the state. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology)

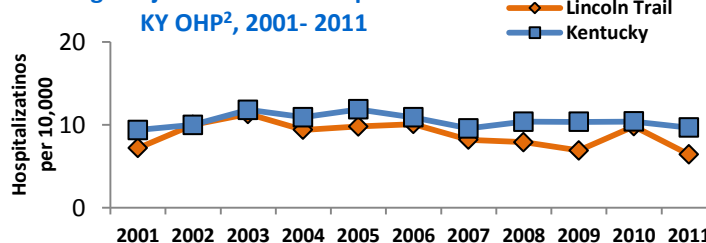
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 3.6/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was 6.4/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age-adjusted asthma hospitalizations:



Adult age-adjusted asthma hospitalizations:



- Both child and adult asthma hospitalizations were lower from 2008-2011 in this district as compared to Kentucky. Between 2001 and 2011, this district averaged 6.7 asthma hospitalizations/10,000 persons/ year, while Kentucky averaged 8.3 asthma hospitalizations /10,000 persons/ year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 1.3/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 1.8/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 1.12 /100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: NORTHERN KENTUCKY AREA DEVELOPMENT DISTRICT

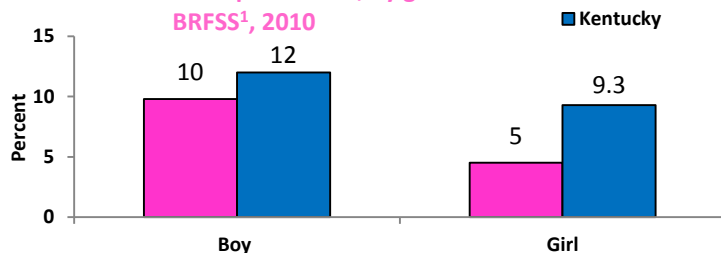
- The Northern Kentucky District of Kentucky is comprised of 8 counties: Boone, Kenton, Campbell, Carroll, Gallatin, Owen, Grant, and Pendleton.
- The 2011 Northern KY District population was roughly 443,000. About 112,600 persons were younger than 18 (children), and about 330,500 were 18 or older (adults).



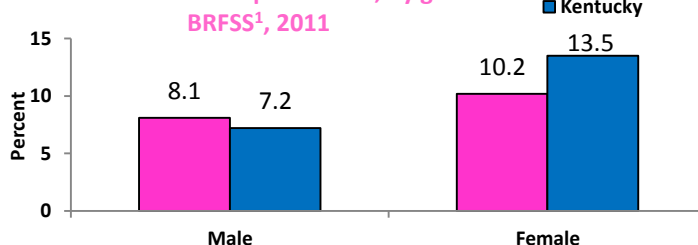
PREVALENCE

- In 2010, an estimated 8,100 children (7.2%) in the Northern Kentucky District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 30,300 adults (9.1%) in this district currently had asthma compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender:



Adult current asthma prevalence, by gender:

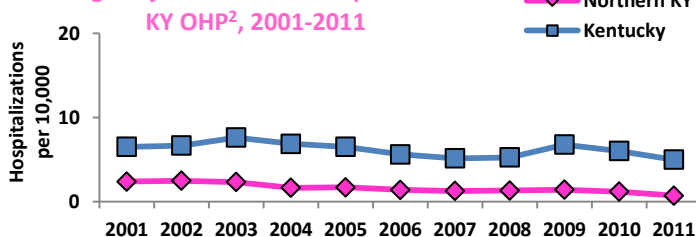


- In 2010, child current asthma prevalence rate was lower in Northern Kentucky District compared to Kentucky, and in 2011 adult current asthma prevalence rate was lower in this district than Kentucky. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology).

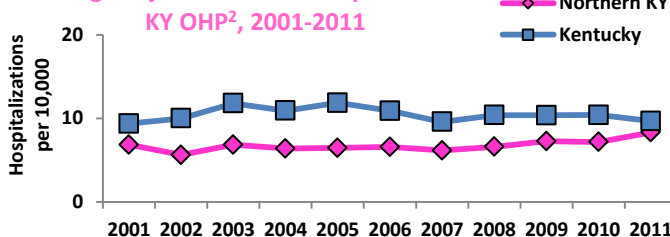
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 0.7/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; the hospitalization rate for adults was 8.3/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age adjusted asthma hospitalizations:



Adult age adjusted asthma hospitalizations:



- Child asthma hospitalizations have been lower in Northern Kentucky District compared to Kentucky. Between 2001 and 2011, this district averaged 4.2 asthma hospitalizations/10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 1.2/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 2.5/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 0.70 /100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

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2012 KENTUCKY ASTHMA PROGRAM FACT SHEET : PENNYRILE AREA DEVELOPMENT DISTRICT

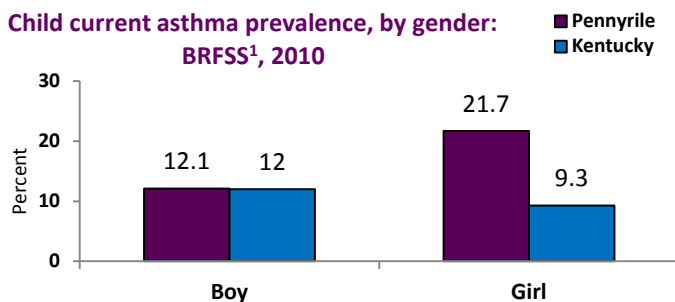
- The Pennyrile District of Kentucky is comprised of 9 counties: Livingston, Crittenden, Lyon, Caldwell, Hopkins, Muhlenberg, Trigg, Christian, and Todd.
- The 2011 Pennyrile District population was roughly 218,700. About 53,100 persons were younger than 18 (children), and about 165,500 were 18 or older (adults).



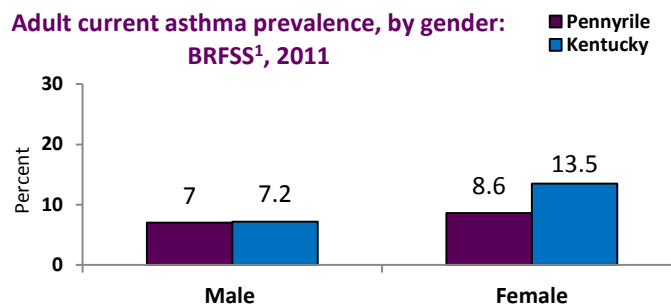
PREVALENCE

- In 2010, an estimated 9,000 children (16.9%) in the Pennyrile District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 13,000 adults (7.8%) in this district currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender:
BRFSS¹, 2010



Adult current asthma prevalence, by gender:
BRFSS¹, 2011

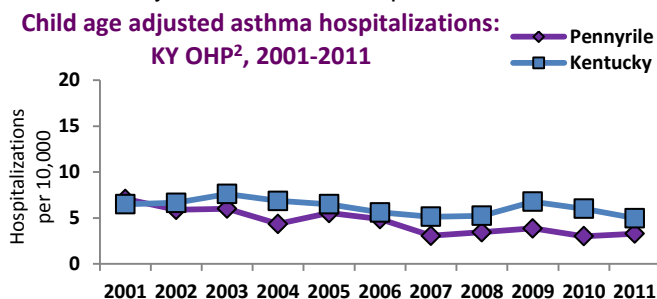


- In 2010, child current asthma prevalence rate was higher in girls than boys in Pennyrile District. In 2011, adult current asthma prevalence rate was lower in this district than the state. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology).

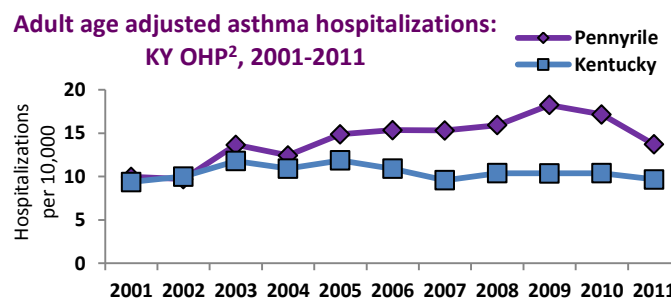
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 3.3/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was 13.4/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age adjusted asthma hospitalizations:
KY OHP², 2001-2011



Adult age adjusted asthma hospitalizations:
KY OHP², 2001-2011



- Child asthma hospitalization rates are lower while adult asthma hospitalization rates are higher in Pennyrile District compared to Kentucky. Between 2001 and 2011, this district averaged 9.4 asthma hospitalizations/10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/ year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 1.9/1,000 persons, similar to the state rate of 1.9/1,000 persons³ and for adults were 2.6/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 1.84 /100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

2. Kentucky, Office of Health Policy (OHP), 2001-2011.

4. Office of Vital Statistics, Kentucky, 2001-2010.

This fact sheet was supported by the Cooperative Agreement Number 5U59EH000508-04 from the Centers for Disease Control and Prevention (CDC). Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the CDC.

KENTUCKY RESPIRATORY DISEASES ASTHMA PROGRAM

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Website: www.chfs.ky.gov/Asthma

2012 KENTUCKY ASTHMA PROGRAM FACT SHEET: PURCHASE AREA DEVELOPMENT DISTRICT

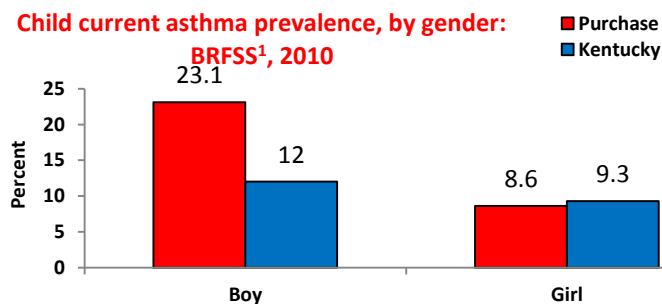
- The Purchase District of Kentucky is comprised of 8 counties: Ballard, Carlisle, Hickman, Fulton, McCracken, Graves, Marshall, and Calloway.
- The 2011 Purchase District population was roughly 197,000. About 42,300 persons were younger than 18 (children), and about 154,800 were 18 or older (adults).



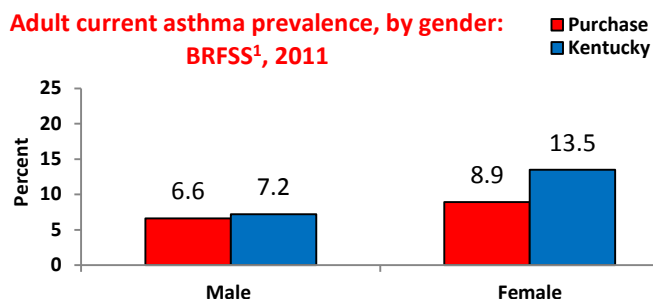
PREVALENCE

- In 2010, an estimated 6,500 children (15.8%) in the Purchase District currently had asthma, compared to 10.7% for Kentucky and 8.4% for the United States.¹ In 2011, an estimated 12,100 adults (7.8%) in this district currently had asthma, compared to 10.4% for Kentucky and 9.1% for the United States.¹

Child current asthma prevalence, by gender:



Adult current asthma prevalence, by gender:

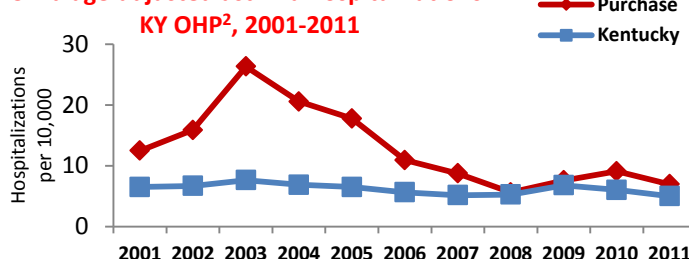


- In 2010, child current asthma prevalence rate was higher in boys as compared to Kentucky. In 2011, adult current asthma prevalence rate was lower in both males and females in this district compared to Kentucky. (NOTE: BRFSS 2010 data cannot be compared to BRFSS 2011 data because of change in methodology)

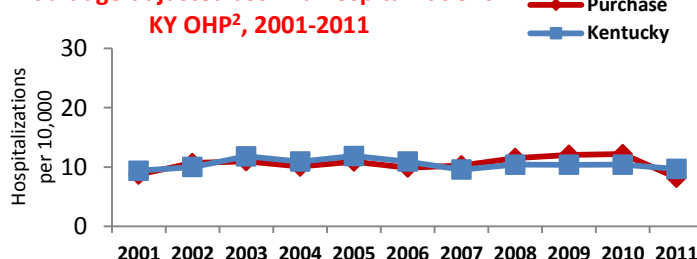
HOSPITALIZATIONS

- In 2011, the age-adjusted hospitalization rate for children was 6.9/10,000 persons compared to the Kentucky rate of 4.9/10,000 persons; while the age-adjusted hospitalization rate for adults was 8.2/10,000 persons compared to the Kentucky rate of 9.7/10,000 persons.

Child age-adjusted asthma hospitalizations:



Adult age-adjusted asthma hospitalizations:



- In 2011, child asthma hospitalizations were higher in Purchase District compared to the state, while adult asthma hospitalizations in this district were lower compared to the state. Between 2001 and 2011, this district averaged 11.7 asthma hospitalizations/10,000 persons/year, while Kentucky averaged 8.3 asthma hospitalizations/10,000 persons/ year over the same 11 year period.²

EMERGENCY DEPARTMENT VISITS

- In 2011, the asthma Emergency Department (ED) visits for children were 1.7/1,000 persons, compared to the state rate of 1.9/1,000 persons³ and for adults were 2.1/1,000 persons compared to the state rate of 2.5/1,000 persons.³

MORTALITY

- Between 2001 and 2010, the average age-adjusted asthma deaths were 0.91/100,000 persons/year in this district compared to 1.10/100,000 persons/year for Kentucky.⁴ In 2010, crude asthma death rates for Kentucky were 1.01/100,000 persons⁴ compared to the US crude death rate of 1.1/100,000 persons.⁵

NOTES:

1. Behavioral Risk Factor Surveillance System (BRFSS).

3. OHP: Preliminary data 2011.

5. CDC Wonder data: <http://wonder.cdc.gov/ucd-icd10.html>

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